

Date: Tue, 3 Aug 93 22:14:24 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #944
To: Info-Hams

Info-Hams Digest Tue, 3 Aug 93 Volume 93 : Issue 944

Today's Topics:

Automatic Packet Reporting System
Bootlegger At ARRL N.E. Convention
Coordinates -> distance calculation
Earphone Phasing - an experiment (2 msgs)
 FT-530 DC Jack.
New Official Phonetic Alphabet
 Quad Antenna
Real men and CW? Read this! (2 msgs)
REQUEST FOR CONTRIBUTIONS: radio, scanner mod archive (4 msgs)
 your LISTSERV request "list info-hams"

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 3 Aug 1993 22:32:04 GMT
From: korie!male.EBay.Sun.COM!uranium!raymonda@ames.arpa
Subject: Automatic Packet Reporting System
To: info-hams@ucsd.edu

There have been a couple articles over the past 2 months in QST
that concerned the Automatic Packet Reporting System. The APRS allows one
to connect the NMEA-0183 output of a LORAN-C or GPS receiver to a packet
system such that the location of the packet station is constantly reported
to a remote location where the location is displayed in real-time on a map.

The article (don't have the reference handy at the moment) gave a
name and address to obtain the software (shareware). It also stated that it

was available on several non-specified BBS systems. Does anyone know if it is available via FTP on the net? I've checked most of the FTP servers that carry HAM related info that I know about, but so far haven't found it.

Thanks,
Ray WB6TPU

-- opinions expressed are mine alone and not those of my employer--

/\	
\\ \	
\ \\ /	
/ \ / /	Raymond E. Anderson
/ / \\\	Signal Integrity Engineer
\\ \ / /	Sun Microsystems
/ / \ /	2550 Garcia Ave. MS MIL04-16
/ \ \ \	Mountain View, CA 94043-1100
\ \ \	
\ /	(408) 276-5224
	(408) 263-9512 fax
	raymond.anderson@Sun.Com

Date: 3 Aug 93 17:41:31 EDT
From: psinntp!arrl.org@uunet.uu.net
Subject: Bootlegger At ARRL N.E. Convention
To: info-hams@ucsd.edu

In rec.radio.amateur.misc, brian@nothing.ucsd.edu (Brian Kantor) writes:

> babb@rapnet.sanders.lockheed.com (Scott Babb) writes:

>> I understand that Amateur Radio is supposed to be self-policing and
>> I was making an attempt to police our hobby. Should I have expected
>> a little help or support from the organization that purports to be
>> our representative body?

> The hobby is self-policing. That doesn't mean we're policemen.

> It means that we encourage people--by example and peer pressure--to obey
> the rules.

> That does NOT mean we go around playing radio cop.

Actually, it's better to use the term "self-regulating." That better connotes that we help each other maintain high standards and avoid transgressions of the law and accepted good operating practice.

"Splitting hairs beats splitting heads!"

CUL es 73 de BB

```

=====
Brian Battles, WS10      I Tel      203-666-1541, ext 222 I  "Radio amateurs
QST Features Editor     I Fax      203-665-7531      I    do it with
ARRL HQ                 I Internet bbattles@arrl.org    I  great frequency"
Newington, CT USA      I Amprnet  ws1o@ws1o.ampr.org    I
=====

```

Date: Tue, 3 Aug 1993 19:51:12 GMT
From: psinntp!sys1!unislcl!mgc@uunet.uu.net
Subject: Coordinates -> distance calculation
To: info-hams@ucsd.edu

Just in case you don't have the Handbook here is response I saw to the same question. from Christopher Owens ?

To get the great circle distance between two points on the earth's surface: first convert latitude, longitude to x,y,z coordinates, then find the straight-line distance between the two, and then find the length of the subtending arc.

```

x = cos(lat)*cos(lon)
y = cos(lat)*sin(lon)
z = sin(lat)

```

Straight-line distance between points is
 $\text{dist} = \sqrt{(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2}$

Length of subtending arc is $D * \text{asin}(\text{dist}/2)$
where D = the earth's diameter, 12765 km

Marc Christensen

Date: Wed, 4 Aug 1993 01:08:39 GMT
From: nih-csl!helix.nih.gov!arm@uunet.uu.net
Subject: Earphone Phasing - an experiment

To: info-hams@ucsd.edu

In article <23mhjo\$gm2@tribune.usask.ca> hardie@herald.usask.ca writes:
>From article <1993Aug3.035410.23897@alw.nih.gov>, by arm@helix.nih.gov (Andrew Mitz):

>> In article <23k31gINN815@newsstand.cit.cornell.edu> F. Kevin Feeney
<fkf1@cornell.edu> writes:

>>>

>>>A discussion just started up in rec.radio.amateur.homebrew on building a
>>>system described a number of years back that used a low pass filter to
>>>the left ear and high pass filter to the right, giving you 'spatial'
>>>differentiation of signals at different tones.

>>

>> A great application for digital filtering, but I was thinking that
>> just frequency filtering is not the only answer. (I'm not sure
>> what is the better answer.)

>>

>I was thinking about exactly this just after Chuck posted his article that
>started this thread. I think a DSP could be used to implement this in the
>following way. The first step (apart from some decimation/interpolation)
>would be a standard CW passband filter (e.g. 500Hz wide centred on 800Hz).
>The output of that filter goes into two separate filters - a low pass and a
>high pass which are designed to give -6dB attenuation at the centre frequency.
>The low pass output then eventually ends up in the left channel and the high
>pass to the right channel.

>I believe that the characteristic of -6dB attenuation at the centre will give
>what is referred to as a half band filter. This has the advantage that almost
>half of the filter coefficients will be zero, thereby reducing the amount of
>computation required for the filters and allowing, if necessary, for filters
>with more taps (which gives increased stopband attenuation).

>This type of filter (FIR) has linear phase characteristics so if a 180 degree
>phase shift is still required, it can either be written into the program or
>hardwired into the headset.

>73 de Pete hardie@herald.usask.ca VE5VA

This is off to a good start, but I think we should stay away from implemetation issues until after we have an idea of what transformations would ease cw copy. What if we begin with a realtively wide bandwidth, e.g. 3 KHz. Then, break up the passband (maybe even at the IF, but again, lets leave the implementation until later) into a range of frequencies. We phase shift each frequency component so that high frequency sources come from the left hand side of the room, mid frequency sources (near the center freq of the tuning dial) appear to emanate from straight ahead, and low frequency sources sound like they are originating from the right hand

side of the room. Then, we compress the audio frequencies (I have not thought about how to do this yet) so that insted of listening to tones from 0 Hz to 3 KHz, all the cw tones are from, say 800 Hz to 1500 Hz. Now, the tones will all be copyable and your brain can use location in space rather than pitch as the primary cue for selection a station to listen to.

Comments?

--

Andrew Mitz, Biomedical Eng., Nationl Institutes | Opinions are mine alone
of Health Animal Center, Poolesville, MD | arm@helix.nih.gov

Date: Mon, 2 Aug 1993 11:20:56 +0000
From: pipex!demon!llondel.demon.co.uk!dave@uunet.uu.net
Subject: Earphone Phasing - an experiment
To: info-hams@ucsd.edu

Another useful trick is to put a filter in series with each earpiece: one is a high-pass type filter and the other is a low-pass type. This spreads the audio spectrum round inside your head (?) and allows you to concentrate on a particular signal more easily.

However, it does take more bits than simply phasing the earpieces :-)

Dave

* G4WRW @ GB7WRW.#41.GBR.EU AX25 * You think *you* have problems? *
* dave@llondel.demon.co.uk Internet * What do you do if you *are* *
* g4wrw@g4wrw.ampr.org Amprnet * a manically depressed robot?? *

Date: 03 Aug 93 23:56:00 GMT
From: microsoft!hexnut!frede@uunet.uu.net
Subject: FT-530 DC Jack.
To: info-hams@ucsd.edu

Radio Shack does indeed sell a plug that will fit the non-standard Yaesu 530 DC Jack. It costs \$2.49 and is part number 270-1575. It has a brown colored tip. It also fits Sony portable CD players which

have the same non-standard jack.

Hope this helps,

FredE

In article <6284.271.uupcb@nitelog.com> dave.santoro@nitelog.com wrote:
> Hi Everyone
>
> Thought you FT-530 owners would be interested that Yaesu's parts
> department will sell a power cord that fits the jack on top of the
> radio. The other end is just stripped bare wire. It'll set you back \$6.
>
> I went crazy at Radio Shack and every other electronics dealer around
> looking for a suitable jack, and finally gave up and called Yaesu.
>
> It's more expensive than a 1.19 RS jack, but IMHO definately worth it.
>
> Call Yaesu Parts at (310) 404-2700.
>
> ---
> . CmpQwk #UNREG. UNREGISTERED EVALUATION COPY
>

Date: Wed, 4 Aug 1993 02:36:10 GMT
From: usc!sol.ctr.columbia.edu!news.kei.com!bloom-beacon.mit.edu!
news.media.mit.edu!news.media.mit.edu.!sro@network.ucsd.edu
Subject: New Official Phonetic Alphabet
To: info-hams@ucsd.edu

Pretty good. Big improvement.

The only changes I would recommend are these two phonetics:

Eight
and
One

I hope that helps.

--Shawn

Date: 3 Aug 93 23:37:48 GMT
From: usenet.coe.montana.edu!netnews.nwnet.net!ns1.nodak.edu!plains!ndsuvml!
ud173191@decwrl.dec.com
Subject: Quad Antenna
To: info-hams@ucsd.edu

Well, this weekend I won the local foxhunt, and I'm thinking of building a 2m quad for better DF'ing. I'm thinking about a four-element, with 2 directors and one reflector, although I may eventually expand upon this. I understand that the directors are smaller (by 5%? I don't have my figures with me now...) and the reflector is larger than the DE, but are all directors the same size? Or is each director out from the DE 5% smaller than the preceding one? The only formula I have to compute with is the one from the ARRL General Class book, and they only list figures for a 3-element quad. I'll be making it out of PVC pipe with hardwood dowels for spreaders and 1/8" cable for the elements (tentatively). Any additional advice is appreciated.

Greg Moore, N00DQ
Tech+ just 3 WPM away from Advanced!

Date: Tue, 3 Aug 93 22:44:42 GMT
From: mnemosyne.cs.du.edu!nyx!jmaynard@uunet.uu.net
Subject: Real men and CW? Read this!
To: info-hams@ucsd.edu

In article <CB7B31.J5p@wang.com> dbushong@wang.com (Dave Bushong) writes:

>didahdit dit didah didahdidit dahdah dit dahdit dahdidit dahdahdah
>dahdit dah dididah dididit dit dahdidit dahdahdah dah dididit didah
>dahdit dahdidit dahdidit didah dididit didididit dit dididit
>dahdahdididahdah dah didididit dit dahdidahdah dididah dididit dit
>dahdidit didit dah dididit didah dahdit dahdidit dahdidit didah
>didididit dididit didahdidahdidah

didahdah dit didahdidit didahdidit didididit didah dididah dit
dah dahdahdah dahdidahdit didididit didah dahdit dahdahdit dit
dahdidahdah dahdahdah dididah didahdit dahdit didah dahdah dit
dah dahdahdah
dididit didahdahdit didah dahdidahdit dit didahdidit dit dididit dididit
dahdit didahdidahdidah
dididit didahdidit dididah didahdit didahdit dit dahdidit didahdidahdidah

didahdit dit didah didahdidit dahdah dit dahdit dididah dididit dit

dididit didahdahdit didah dahdidahdit dit dididit didahdidahdidah

: -P

--

Jay Maynard, EMT-P, K5ZC, PP-ASEL | Never ascribe to malice that which can
jmaynard@oac.hsc.uth.tmc.edu | adequately be explained by stupidity.
"iHaTeX." -- Andrew Burt

Date: Wed, 4 Aug 1993 02:09:28 GMT
From: europa.eng.gtefsd.com!howland.reston.ans.net!vixen.cso.uiuc.edu!sdd.hp.com!
col.hp.com!news.dtc.hp.com!srngenprp!alanb@uunet.uu.net
Subject: Real men and CW? Read this!
To: info-hams@ucsd.edu

Jay Maynard (jmaynard@nyx.cs.du.edu) wrote:

: In article <CB7B31.J5p@wang.com> dbushong@wang.com (Dave Bushong) writes:

: >didahdit dit didah didahdidit dahdah dit dahdit dahdidit dahdahdah
: >dahdit dah dididah dididit dit dahdidit dahdahdah dah dididit didah
: >dahdit dahdidit dahdidit didah dididit didididit dit dididit
: >dahdahdididahdah dah didididit dit dahdidahdah dididah dididit dit
: >dahdidit didit dah dididit didah dahdit dahdidit dahdidit didah
: >didididit dididit didahdidahdidah

: didahdah dit didahdidit didahdidit didididit didah didididah dit
: dah dahdahdah dahdidahdit didididit didah dahdit dahdahdit dit
: dahdidahdah dahdahdah dididah dahdit dahdit didah dahdah dit
: dah dahdahdah
: dididit didahdahdit didah dahdidahdit dit didahdidit dit dididit dididit
: dahdit didahdidahdidah
: dididit didahdidit dididah dahdit didahdit dit dahdidit didahdidahdidah

: didahdit dit didah didahdidit dahdah dit dahdit dididah dididit dit
: dididit didahdahdit didah dahdidahdit dit dididit didahdidahdidah

Well, lah dee dah...

AL N1AL

Date: 3 Aug 1993 19:34:43 -0400
From: olivea!news.bu.edu!bloom-beacon.mit.edu!mcrcim.mcgill.edu!not-for-
mail@uunet.uu.net
Subject: REQUEST FOR CONTRIBUTIONS: radio, scanner mod archive
To: info-hams@ucsd.edu

>
>> > As a service to the net-aware ham community, we have created an
>> > anonymous ftp site to hold modification instructions ...
>>
>> > We are unaware of any site which offers such a service at this time.
>> > If informed otherwise, we shall actively seek out their entire
>> > collection(s), and add it to ours.
>>
>>Why do you want to duplicate the other ftp sites?
>
>Because there doesn't appear to be a centralized, and organized
>location for such information. Doing spread-spectrum with archives is
>messy.

well, as indicated by seeing the same questions over and over the past
few weeks, either the existing sites are inadequate, no one knows
about them, or the data is scattered over so many sites, it's too hard
to find.

I'm all for a single FTP site and/or a single FAQ, which has all the
scanner model questions, reviews and mods, and all frequencies that get
posted here from time to time...

John McLachlan
Draper Lab
Cambridge, MA
aka jmclachlan@draper.com

: -)

Date: 3 Aug 1993 22:32:51 -0400
From: usc!cs.utexas.edu!tamsun.tamu.edu!bloom-beacon.mit.edu!mcrcim.mcgill.edu!
not-for-mail@network.ucsd.edu
Subject: REQUEST FOR CONTRIBUTIONS: radio, scanner mod archive
To: info-hams@ucsd.edu

John McLachlan <jmclachl@lynx.dac.northeastern.edu> wrote:

>
>In article <23mjat\$9ei@Athena.McRCIM.McGill.EDU> bruno@McRCIM.McGill.EDU (Bruno
Hall) writes:
>>Bob Parnass, AJ9S <parnass@cbnewse.cb.att.com> wrote:
>>
>>> > As a service to the net-aware ham community, we have created an
>>> > anonymous ftp site to hold modification instructions ...
>>>
>>> > We are unaware of any site which offers such a service at this time.

>>> > If informed otherwise, we shall actively seek out their entire
>>> > collection(s), and add it to ours.
>>>
>>>Why do you want to duplicate the other ftp sites?
>>
>>Because there doesn't appear to be a centralized, and organized
>>location for such information. Doing spread-spectrum with archives is
>>messy.
>
>well, as indicated by seeing the same questions over and over the past
>few weeks, either the existing sites are inadequate, no one knows
>about them, or the data is scattered over so many sites, it's too hard
>to find.
>
>I'm all for a single FTP site and/or a single FAQ, which has all the
>scanner model questions, reviews and mods, and all frequencies that get
>posted here from time to time...

Thanks John! I was beginning to wonder whether anyone was interested at all... I am not opposed to becoming "the" site for radio and scanner mods. If the FAQ maintainer wishes to place our site in the FAQ, that's fine with us -- but his reply to my original posting didn't strike me as too enthused.

Our logs show that we have received over 80 ftp connections for the mods today. So far, I've accumulated a little over 200 mods, although I must confess that noone has yet sent me anything.

I have taken a walk through all the ftp sites mentioned in the faq, and have made a union of what I found.

Finally, we would like to ask archive users to please take what they need, and not too much more, as we're at the far end of a rather slow link, which is used for other things.

Bruno

--

/\/
Bruno Hall | VE2HUM | bruno@mrcim.mcgill.edu
McGill Research Centre for Intelligent Machines - Controls Group
New systems generate new problems -- Join the Flat Earth Society.

Date: Tue, 03 Aug 93 20:36:48 PDT

From: usc!howland.reston.ans.net!darwin.sura.net!news-feed-1.peachnet.edu!umn.edu!
csus.edu!netcom.com!netcomsv!micromed!brett@network.ucsd.edu

Subject: REQUEST FOR CONTRIBUTIONS: radio, scanner mod archive

Per request by a66rmp%andv02@gmr.com

"list info-hams"

'info-hams' is not subscribed to any mailing lists.

Date: Wed, 4 Aug 1993 03:09:48 GMT

From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!
darwin.sura.net!news-feed-2.peachnet.edu!umn.edu!csus.edu!netcom.com!
wa2ise@network.ucsd.edu

To: info-hams@ucsd.edu

References <1993Aug3.035410.23897@alw.nih.gov>, <23mhjo\$gm2@tribune.usask.ca>,
<1993Aug4.010839.17012@alw.nih.gov>e

Subject : Re: Earphone Phasing - an experiment

Maybe a quick and dirty way to try the earphone phasing experiment is to get one of those stereo "hi-fi" "graphic equalizer" boxes, and a small stereo amp with a headphone jack. Connect the audio output from the rig to both inputs of the graphic equalizer (L,R). The outputs of this box feed the stereo amp, and connect the ear/head-phones to that.

Adjust the controls of the equalizer to get the lower freqs (100-300Hz) to the left (by boosting the lows on the left, cutting the lows on the right channel), some equal gain for say 300-600Hz, and boost the stuff above 600Hz on the right channel, and cutting same on the left. This should give a spatial effect like what this thread is discussing.

It's probably not worth buying the above gadgets new to do this, but you may already have this stuff in the stereo system in the living room, and swipe it to try this test. If nothing else, to get a better idea on what specs the DSP design should go for.

The Phone company's got your number!

Date: Tue, 3 Aug 1993 19:36:54 GMT

From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!
europa.eng.gtefsd.com!darwin.sura.net!wvnmms.wvnet.edu!cerc.wvu.edu!
faculty.coe.wvu.edu!venable@network.ucsd.edu

To: info-hams@ucsd.edu

References <744135015snx@bsdihl.atr.bso.nl>,
<930801.223119.5n2.rusnews.w165w@garlic.sbs.com>,
<1993Aug2.145836.29681@ke4zv.uucp>wv

Subject : Re: HELP, PC RADIATES ...QRM

In article <1993Aug2.145836.29681@ke4zv.uucp> gary@ke4zv.uucp (Gary Coffman)

writes:

>In article <930801.223119.5n2.rusnews.w165w@garlic.sbs.com> system@garlic.sbs.com
(Tony Pelliccio) writes:

>>dihi@bsdihi.atr.bso.nl (Dick Hissink) writes:

>>>

>>> Probably more of us have been struggling with radiating PC's,

>>

>The hardest part of the system to shield is often the keyboard.

>There's no practical way to shield the keycap area.

On my Windows machine, the MOUSE spits static every time you move it.

End of Info-Hams Digest V93 #944
